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RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/939,905B

DATE: 07/11/2001

TIME: 10:00:10

Input Set : A:\873726u1.sql

Output Set: N:\CRF3\07112001\H939905B.raw

5 <110> APPLICANT: Gissen, Mark
 9 <120> TITLE OF INVENTION: Soybean Seed Coat Peroxidase Structural Gene And Regulatory

Region

13 <130> FILE REFERENCE: 76-105
 17 <140> CURRENT APPLICATION NUMBER: US 08/939,905B
C--> 19 <141> CURRENT FILING DATE: 1997-09-29
 23 <150> PRIOR APPLICATION NUMBER: US 08/723,414
 25 <151> PRIOR FILING DATE: 1996-09-30
 29 <160> NUMBER OF SEQ ID NOS: 19
 33 <170> SOFTWARE: PatentIn version 3.0

37 <110> SEQ ID NO: 1

39 <211> LENGTH: 1244

41 <212> TYPE: DNA

43 <213> ORGANISM: Glycine max

47 <220> FEATURE:

49 <221> NAME/KEY: CDS

51 <222> LOCATION: (1)..(1056)

55 <220> FEATURE:

57 <221> NAME/KEY: siRNA_peptide

59 <222> LOCATION: (1)..(^8)

63 <400> SEQUENCE: 1

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66 1 5 10 15	
66 atg cat gca ggt ttt tca gtc tat tat gct cag ctt act cct acg ttc	96
67 Met His Ala Gly Phe Ser Val Ser Tyr Ala Gln Leu Thr Pro Thr Phe	
68 20 25 30	
69 tac aga gaa aca tat cca aat ctg ttc cct att gtg ttt gga gta atc	144
70 Tyr Arg Glu Thr Cys Pro Asn Leu Phe Pro Ile Val Phe Gly Val Ile	
71 35 40 45	
72 atc gat gct tat ttc acc gat ccc cga atc ggg gcc agt ctc atg agg	192
73 Phe Asp Ala Ser Phe Thr Asp Pro Arg Ile Gly Ala Ser Leu Met Arg	
74 50 55 60	
75 ttc cat ttt tat gat tgc ttt gtt paa ggt tgt gat gga tca gtt ttg	240
76 Leu His Phe His Asp Cys Phe Val Gln Gly Asp Gly Ser Val Leu	
77 65 70 75 80	
78 atc aac aac act gat aca ata gaa agc gag caa gat gca ctt cca aat	283
79 Leu Asn Asn Thr Asp Thr Ile Glu Ser Glu Gln Asp Ala Leu Pro Asn	
80 85 90 95	
81 atc aac tca ata aga ggt gac gtt gtc aat gac atc aac aca gcg	336
82 Ile Asn Ser Ile Arg Gly Leu Asp Val Val Asn Asp Ile Lys Thr Ala	
83 100 105 110	
84 gtt gaa aat aat tgt cca gac aca gtt tct tgt gct gat att ctt gct	384
85 Val Glu Asn Ser Cys Pro Asp Thr Val Ser Cys Ala Asp Ile Leu Ala	
86 115 120 125	
87 att gca gct gaa ata gct tct gtt ctg gga gga ggt cca gga tgg cca	432
88 Ile Ala Ala Glu Ile Ala Ser Val Leu Gly Gly Pro Gly Trp Pro	
89 130 135 140	

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RAW SEQUENCE LISTING

DATE: 07/11/2001
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 102 145 150 155 160
 104 aat caa aac ctt gca gca cct ttc ttc aac ctc act caa ctt aaa gca 528
 105 Asn Gln Asn Leu Pro Phe Asn Leu Thr Gln Leu Lys Ala 175
 106 160 170 175
 107 tcc ttt gct gtt gaa ggt ctc aac acc ctt gat tta gtt aca ctc tca 576
 108 Ser Phe Ala Val Gln Gly Leu Asn Thr Leu Asp Leu Val Thr Leu Ser
 109 180 185 190
 110 180 185 190
 111 ggt ggt cat acg ttt gga aga gct cgg tgc agt aca ttc att aac cga 624
 112 Gly Gly His Thr Phe Gly Arg Ala Arg Cys Ser Thr Phe Ile Asn Arg
 113 190 200 205
 114 195 200 205
 115 tta tac aac tr: agt aac act gya aac act gat cca att ctg aac aca 672
 116 Tyr Asn Phe Ser Asn Thr Gly Asn Pro Asp Pro Thr Leu Asn Thr
 117 Leu Tyr Asn Phe Ser Asn Thr Gly Asn Pro Asp Pro Thr Leu Asn Thr 220
 118 210 215 220
 119 aca tac tta gaa gya ttg cgt gca aja tgc ccc cag att gca act ggt 720
 120 Thr Tyr Leu Glu Val Leu Arg Ala Arg Cys Pro Gin Asn Ala Thr GGT 240
 121 220 225 235
 122 225 230 235
 123 gat aac ctc acc aat ttg gac ctg agc aca cct gat caa ttt gac aac 763
 124 Asp Asn Leu Thr Asn Leu Asp Leu Ser Thr Pro Asp Gin Phe Asp Asn
 125 240 250 255
 126 240 250 255
 127 aga tac tac tcc aat ctt ctg gag ctc aat ggc tta ctt cag agt gac 816
 128 Arg Tyr Tyr Ser Asn Leu Leu Gln Leu Asn Gly Leu Leu Gin Ser Asp
 129 260 265 270
 130 260 265 270
 131 caa gaa ctt ttg tcc act cct ggt gct gat acc att ccc att gtc aat 864
 132 Gln Glu Ile Phe Ser Thr Pro Gly Ala Asp Thr Ile Pro Ile Val Asn
 133 270 280 285
 134 275 280 285
 135 agc ttc agc aji aac cag aat ait ttc ttt tcc aac ttg aat gtt tra 912
 136 Ser Phe Ser Ser Asn Gln Asn Thr Phe Phe Ser Asn Phe Arg Val Ser
 137 290 295 300
 138 290 300 305
 139 atq ata aaa atg gtt aat att gga gtg ctg act ggg gat gaa gga gaa 960
 140 Met Ile Lys Met Gly Asn Ile Gly Val Leu Thr Gly Asp Glu Gly Glu
 141 310 315 320
 142 305 310 315
 143 att ctc ttg caa ttt ctg aat gca gac tcc ttt gga tta gtt 1008
 144 Ser Ile Arg Leu Gln Dns Asn Phe Val Asn Gly Asp Ser Phe Gly Leu Ala
 145 320 330 335
 146 325 335 340
 147 agt gtg gcg tcc aaa gat gct aaa caa aag ctt gtt gct caa tct aaa 1056
 148 Ser Val Ala Ser Lys Asp Ala Lys Gin Lys Leu Val Ala Gln Ser Lys
 149 340 345 350
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 153 1116 LENGTH: 4710
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 160 .1116 LENGTH: 4710
 161 .1116 TYPE: DNA
 162 .1116 ORGANISM: glycine max
 163 .1116 FEATURE:
 164 .1116 NAME/KEY: promoter

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/939,905B

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278 aattaaaatt ctcttttaat tatcucacata attttttttg gtgaatatta tcgcacataat
280 tatttaataa aaatttttat tjtatataga agtgataactt caattttaat attggagaac
282 aatggaaaa aitangaaaa ctgttattag aagaaaaaaa tatatggaaa aggttagcta
284 aatataattaj traaitagt tggtttaatt ggctatataa accctattgt actctttgt
286 attcacatt ttccattaa atacuttctt acttttttaag ttcttatatt ttctchcaatt
288 ttcttgcgtt aaccataaaa tttaucatgg tatacagcg ataccaccca ctttggaaagc
290 aatgtatgtt tagtatggc agccaaatt tgccttggtt caagcaaagc aagtgtttat
292 atagatgtttt ctttttgtga ggaactcatg ccaatggtaat tgattgtgaa actgagaaaa
294 aatatttgtt gaattttgtat tatgtcatt aaatactctt ctcctgacta ctttcgtccc
296 tggatttji accatcatta tttrccaaaa atttgattac aatgcactaa ttaatgaatg
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556	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
558	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
560	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
562	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
564	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
566	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
568	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
570	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
572	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
574	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
576	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
578	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
580	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
582	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
584	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
586	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
588	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
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594	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
596	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
598	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
600	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
602	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt	tttttttt
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RAW SEQUENCE LISTING

RAW SEQUENCE 21001
PATENT APPLICATION: US/08/939,905B

DATE: 07/11/2001
TIME: 10:00:10

Input Set : A:\873726u1.sql
Output Set: N:\CRF3\07112001\H939905B.raw

VERIFICATION SUMMARY

PATENT APPLICATION: US/08/939,905B

DATE: 07/11/2001

TIME: 10:00:11

Input Set : A:\873726u1.sql
Output Set: N:\CRF3\07112001\H939905B.raw

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date